

| | | | | | | | | | | | | | | | | | | | |
|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| 1 | 1 | ACA | GTC | AGC | CGC | ATG | GCT | CCC | CTG | TGC | CCC | P | S | P | W | L | P | L | 12 |
| | 1 | | | | | | | | | | | | | | | | | | 48 |
| 13 | | L | I | P | A | P | A | P | G | L | T | V | Q | L | L | L | L | S | 28 |
| 49 | | TTG | ATC | CCG | GCC | CCT | GCT | CCA | GGC | CTC | ACT | GTG | CAA | CTG | CTG | CTG | TCA | 96 | |
| 29 | | L | L | L | L | M | P | V | H | P | Q | R | L | P | P | R | M | Q | 44 |
| 97 | | CTG | CTG | CTT | CTG | ATG | CCT | GTC | CAT | CCC | CAG | AGG | TTG | CCC | CGG | ATG | CAG | 144 | |
| 45 | | E | D | S | P | L | G | G | G | S | S | G | E | D | D | P | L | 60 | |
| 145 | | GAG | GAT | TCC | CCC | TTG | GGA | GGA | GGC | TCT | TCT | GGG | GAA | GAT | GAC | CCA | CTG | 192 | |
| 61 | | G | E | E | D | L | P | S | E | E | D | S | P | R | E | E | D | 76 | |
| 193 | | GGC | GAG | GAG | GAT | CTG | CCC | AGT | GAA | GAG | GAT | TCA | CCC | AGA | GAG | GAG | GAT | 240 | |
| 77 | | P | P | G | E | E | D | L | P | G | E | E | D | L | P | G | E | 92 | |
| 241 | | CCA | CCC | GGA | GAG | GAG | GAT | CTA | CCT | GGA | GAG | GAG | GAT | CTA | CCT | GGA | GAG | 288 | |
| 93 | | E | D | L | P | E | V | K | P | K | S | E | E | E | G | S | L | 108 | |
| 289 | | GAG | GAT | CTA | CCT | GAA | GTT | AAG | CCT | AAA | TCA | GAA | GAA | GAG | GGC | TCC | CTG | 336 | |
| 109 | | K | L | E | D | L | P | T | V | E | A | P | G | D | P | Q | E | 124 | |
| 337 | | AAG | TTA | GAG | GAT | CTA | CCT | ACT | GTT | GAG | GCT | CCT | GGA | GAT | CCT | CAA | GAA | 384 | |
| 125 | | P | Q | N | N | A | H | R | D | K | E | G | D | D | Q | S | H | 140 | |
| 385 | | CCC | CAG | AAT | AAT | GCC | CAC | AGG | GAC | AAA | GAA | GGG | GAT | GAC | CAG | AGT | CAT | 432 | |
| 141 | | W | R | Y | G | G | D | P | P | W | P | R | V | S | P | A | C | 156 | |
| 433 | | TGG | CGC | TAT | GGA | GGC | GAC | CCG | CCC | TGG | CCC | CGG | GTG | TCC | CCA | GCC | TGC | 480 | |
| 157 | | A | G | R | F | Q | S | P | V | D | I | R | P | Q | L | A | A | 172 | |
| 481 | | GCG | GGC | CGC | TTC | CAG | TCC | CCG | GTG | GAT | ATC | CGC | CCC | CAG | CTC | GCC | GCC | 528 | |

FIG. 1A

| | | | | | | | | | | | | | | | | | |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 173 | F | C | P | A | L | R | P | L | E | L | L | G | F | Q | L | P | 188 |
| 529 | TTC | TGC | CCG | GCC | CTG | CGC | CCC | CTG | GAA | CTC | CTG | GGC | TTC | CAG | CTC | CCG | 576 |
| 189 | P | L | P | E | L | R | L | R | N | N | G | H | S | V | Q | L | 204 |
| 577 | CCG | CTC | CCA | GAA | CTG | CGC | CTG | CGC | AAC | AAT | GGC | CAC | AGT | GTG | CAA | CTG | 624 |
| 205 | T | L | P | P | G | L | E | M | A | L | G | P | G | R | E | Y | 220 |
| 625 | ACC | CTG | CCT | CCT | GGG | CTA | GAG | ATG | GCT | CTG | GGT | CCC | GGG | CGG | GAG | TAC | 672 |
| 221 | R | A | L | Q | L | H | L | H | W | G | A | A | G | R | P | G | 236 |
| 673 | CGG | GCT | CTG | CAG | CTG | CAT | CTG | CAC | TGG | GGG | GCT | GCA | GGT | CGT | CCG | GGC | 720 |
| 237 | S | E | H | T | V | E | G | H | R | F | P | A | E | I | H | V | 252 |
| 721 | TCG | GAG | CAC | ACT | GTG | GAA | GGC | CAC | CGT | TTC | CCT | GCC | GAG | ATC | CAC | GTG | 768 |
| 253 | V | H | L | S | T | A | F | A | R | V | D | E | A | L | G | R | 268 |
| 769 | GTT | CAC | CTC | AGC | ACC | GCC | TTT | GCC | AGA | GTT | GAC | GAG | GCC | TTG | GGG | CGC | 816 |
| 269 | P | G | G | L | A | V | L | A | A | F | L | E | E | G | P | E | 284 |
| 817 | CCG | GGA | GGC | CTG | GCC | GTG | TTG | GCC | GCC | TTT | CTG | GAG | GAG | GGC | CCG | GAA | 864 |
| 285 | E | N | S | A | Y | E | Q | L | L | S | R | L | E | E | I | A | 300 |
| 865 | GAA | AAC | AGT | GCC | TAT | GAG | CAG | TTG | CTG | TCT | CGC | TTG | GAA | GAA | ATC | GCT | 912 |
| 301 | E | E | G | S | E | T | Q | V | P | G | L | D | I | S | A | L | 316 |
| 913 | GAG | GAA | GGC | TCA | GAG | ACT | CAG | GTC | CCA | GGA | CTG | GAC | ATA | TCT | GCA | CTC | 960 |
| 317 | L | P | S | D | F | S | R | Y | F | Q | Y | E | G | S | L | T | 332 |
| 961 | CTG | CCC | TCT | GAC | TTC | AGC | CGC | TAC | TTC | CAA | TAT | GAG | GGG | TCT | CTG | ACT | 1008 |
| 333 | T | P | P | C | A | Q | G | V | I | W | T | V | F | N | Q | T | 348 |
| 1009 | ACA | CCG | CCC | TGT | GCC | CAG | GGT | GTC | ATC | TGG | ACT | GTG | TTT | AAC | CAG | ACA | 1056 |

| | | | | | | | | | | | | | | | | | |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 349 | V | M | L | S | A | K | Q | L | H | T | L | S | D | T | L | W | 364 |
| 1057 | GTG | ATG | CTG | AGT | GCT | AAG | CAG | CTC | CAC | ACC | CTC | TCT | GAC | ACC | CTG | TGG | 1104 |
| 365 | G | P | G | D | S | R | L | Q | L | N | F | R | A | T | Q | P | 380 |
| 1105 | GGA | CCT | GGT | GAC | TCT | CGG | CTA | CAG | CTG | AAC | TTC | CGA | GCG | ACG | CAG | CCT | 1152 |
| 381 | L | N | G | R | V | I | E | A | S | F | P | A | G | V | D | S | 396 |
| 1153 | TTG | AAT | GGG | CGA | GTG | ATT | GAG | GCC | TCC | TTC | CCT | GCT | GGA | GTG | GAC | AGC | 1200 |
| 397 | S | P | R | A | A | E | P | V | Q | L | N | S | C | L | A | A | 412 |
| 1201 | AGT | CCT | CGG | GCT | GCT | GAG | CCA | GTC | CAG | CTG | AAT | TCC | TGC | CTG | GCT | GCT | 1248 |
| 413 | G | D | I | L | A | L | V | F | G | L | L | F | A | V | T | S | 428 |
| 1249 | GGT | GAC | ATC | CTA | GCC | CTG | GTT | TTT | GGC | CTC | CTT | TTT | GCT | GTC | ACC | AGC | 1296 |
| 429 | V | A | F | L | V | Q | M | R | R | Q | H | R | R | G | T | K | 444 |
| 1297 | GTC | GCG | TTC | CTT | GTG | CAG | ATG | AGA | AGG | CAG | CAC | AGA | AGG | GGA | ACC | AAA | 1344 |
| 445 | G | G | V | S | Y | R | P | A | E | V | A | E | T | G | A | * | 460 |
| 1345 | GGG | GGT | GTG | AGC | TAC | CGC | CCA | GCA | GAG | GTA | GCC | GAG | ACT | GGA | GCC | TAG | 1392 |
| 1393 | AGG | CTG | GAT | CTT | GGA | GAA | TGT | GAG | AAG | CCA | GCC | AGA | GGC | ATC | TGA | GGG | 1440 |
| 1441 | GGA | GCC | GGT | AAC | TGT | CCT | GTC | CTG | CTC | ATT | ATG | CCA | CTT | CCT | TTT | AAC | 1488 |
| 1489 | TGC | CAA | GAA | ATT | TTT | TAA | AAT | AAA | TAT | TTA | TAA | T | | | | | 1522 |

FIG..1C

FIG..1A

FIG..1B

FIG..1C

FIG..1

4 / 31

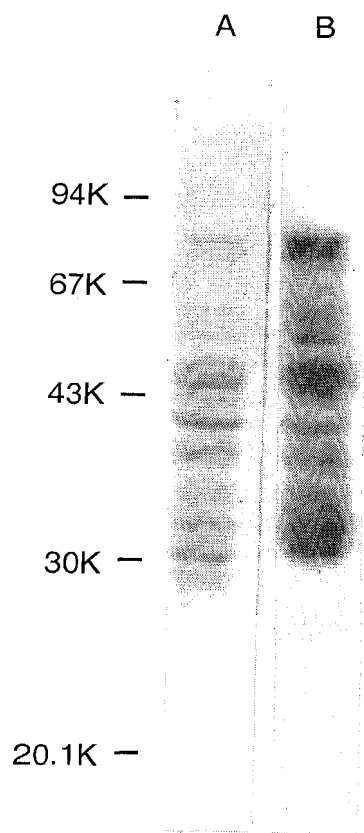


FIG._2

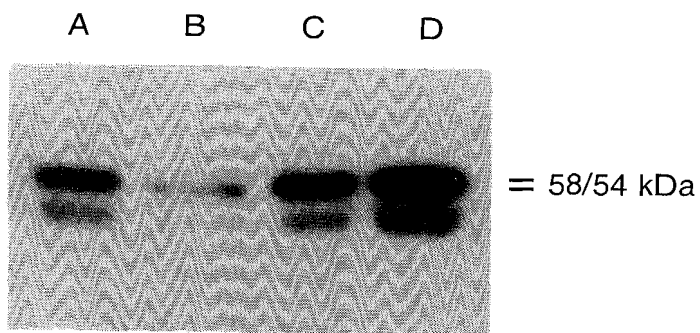


FIG._3

5 / 31

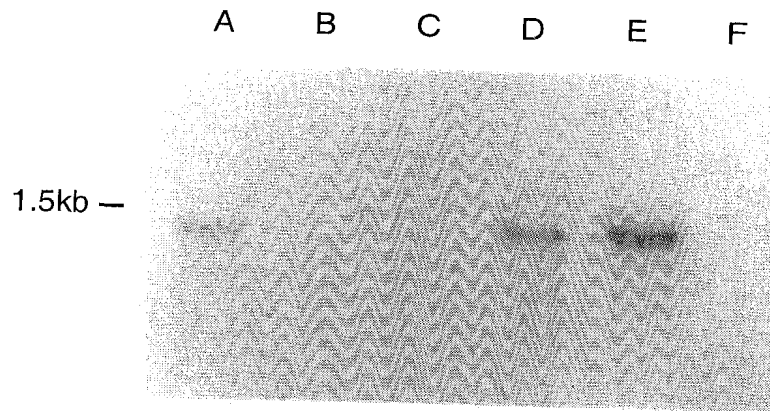


FIG._4

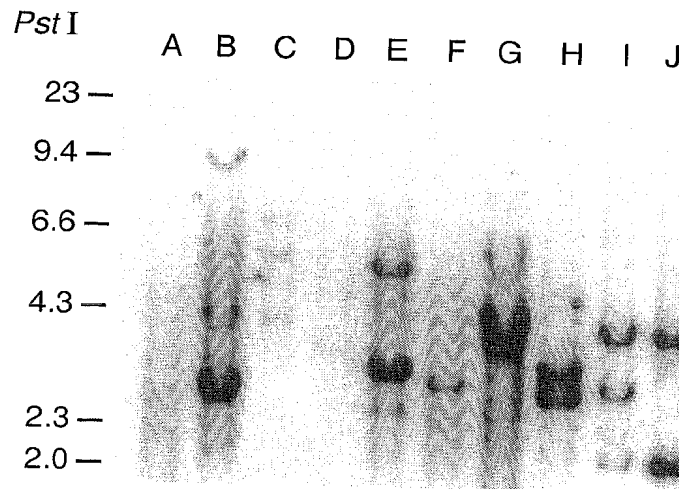


FIG._5

6 / 31

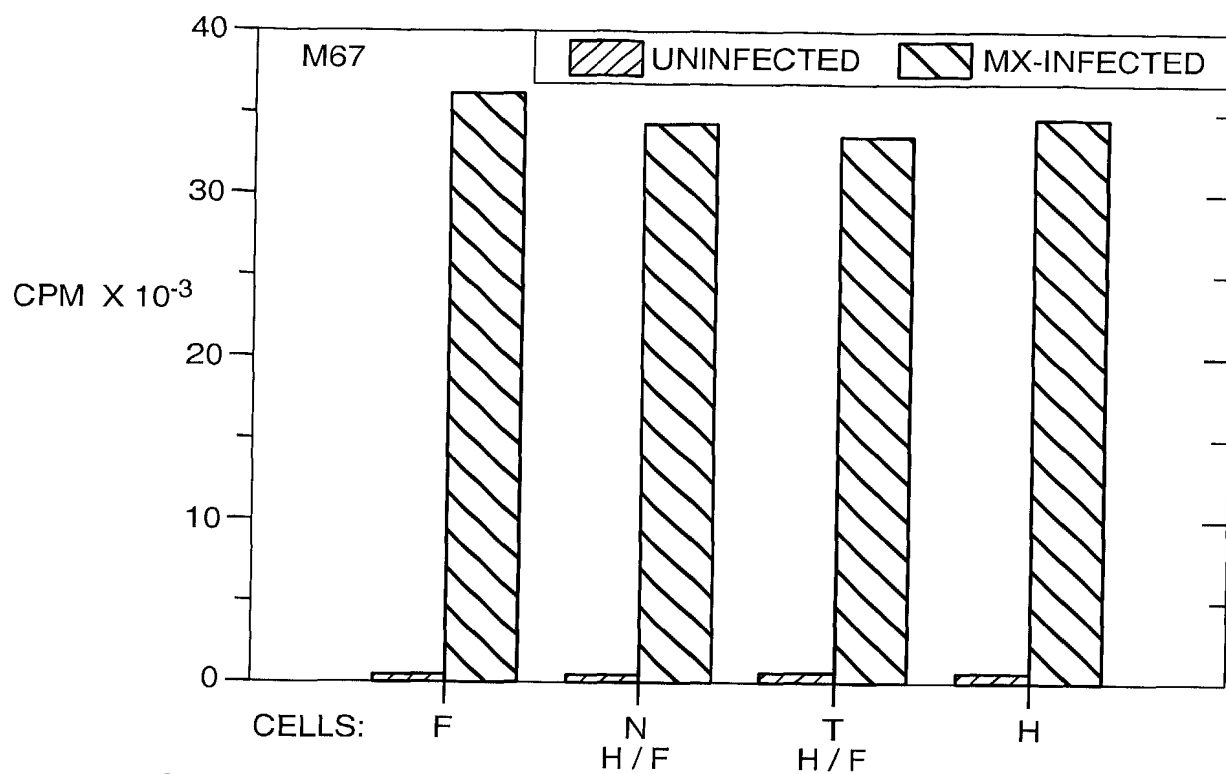


FIG._6A

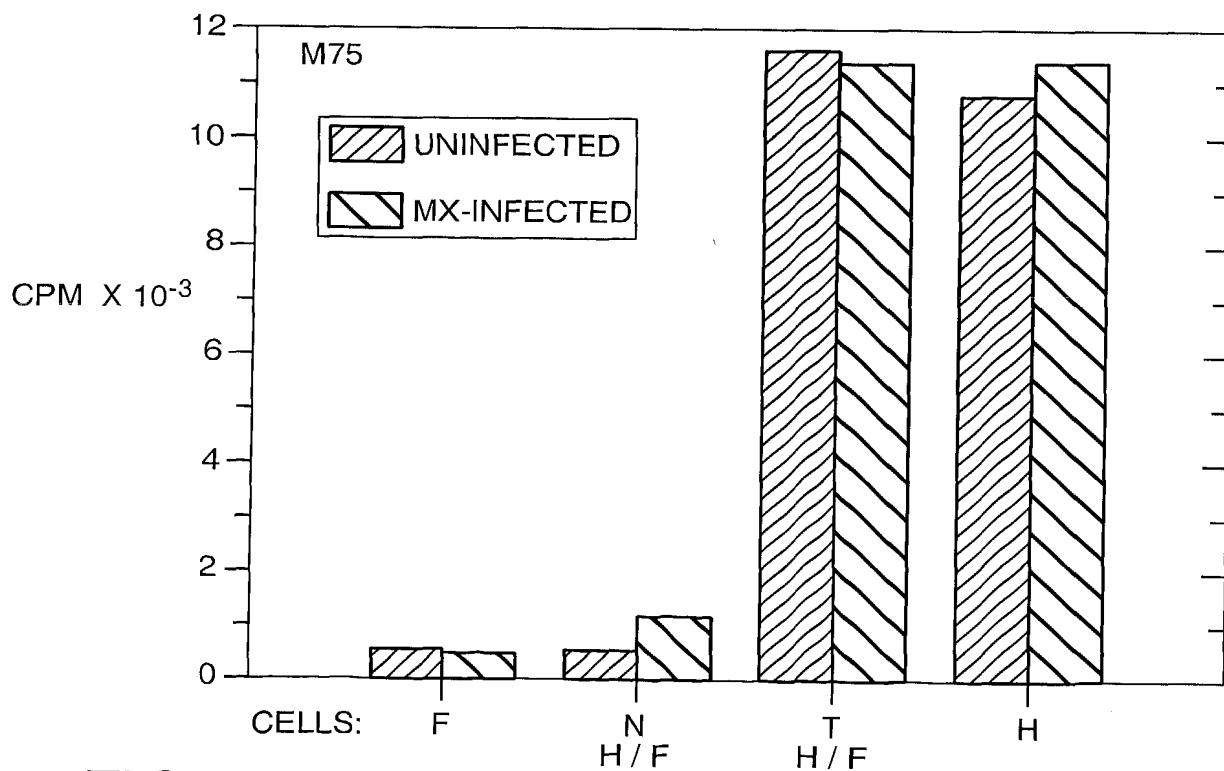


FIG._6B

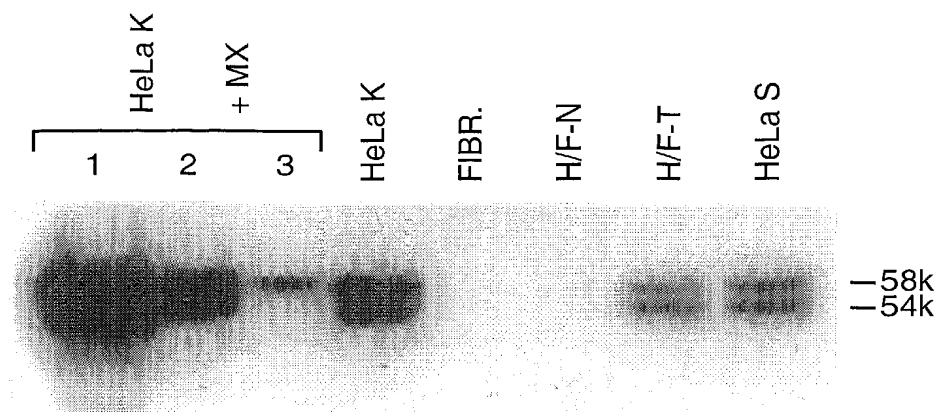


FIG._7

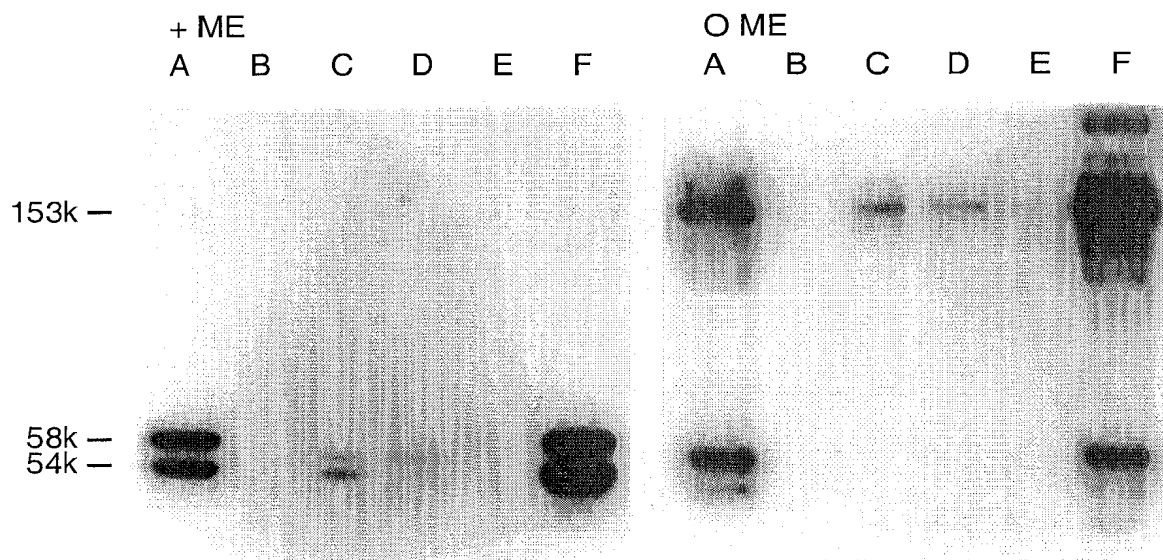


FIG._8

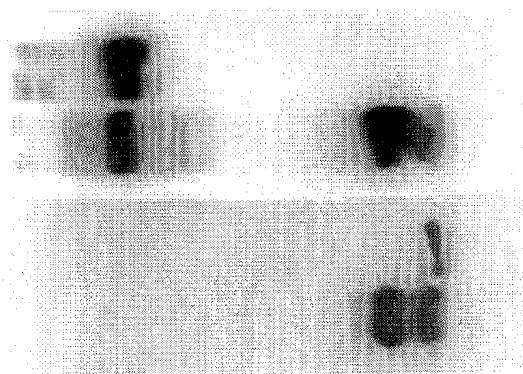
A B C D E F G H I J K L M N O P

58k —
54k —



FIG. 9

+ ME OME
A B A B



153k —

58k —
54k —

FIG. 10

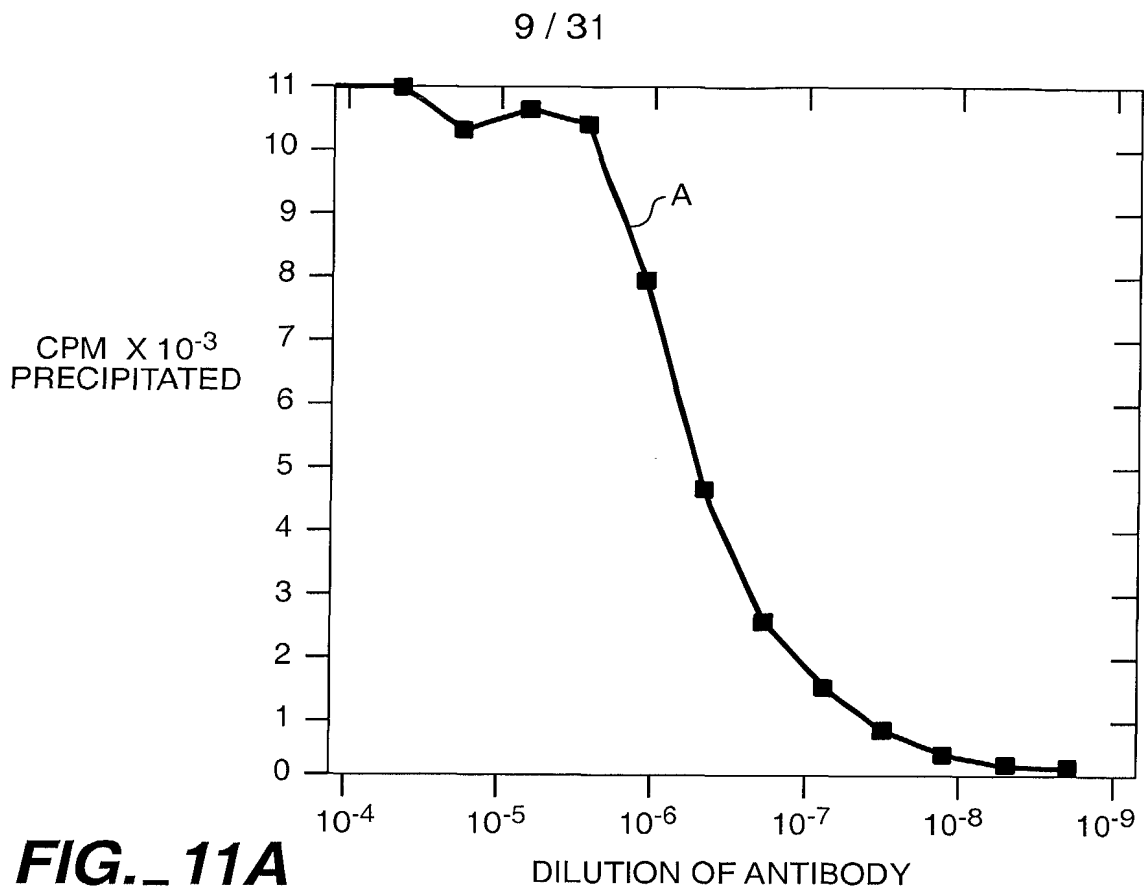


FIG. 11A

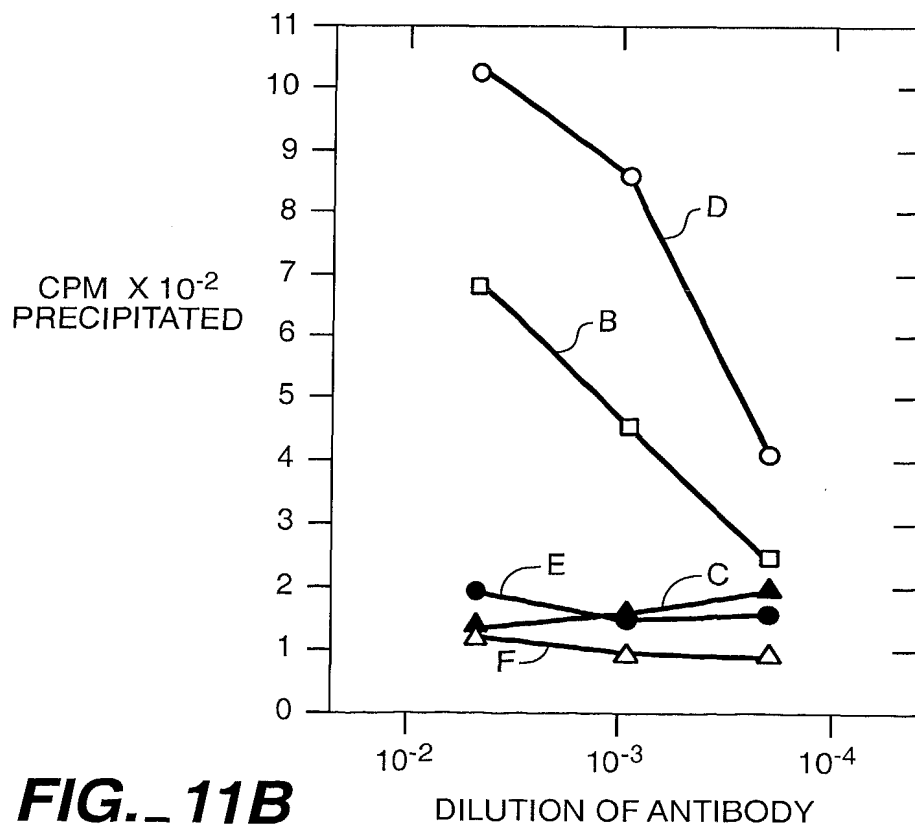
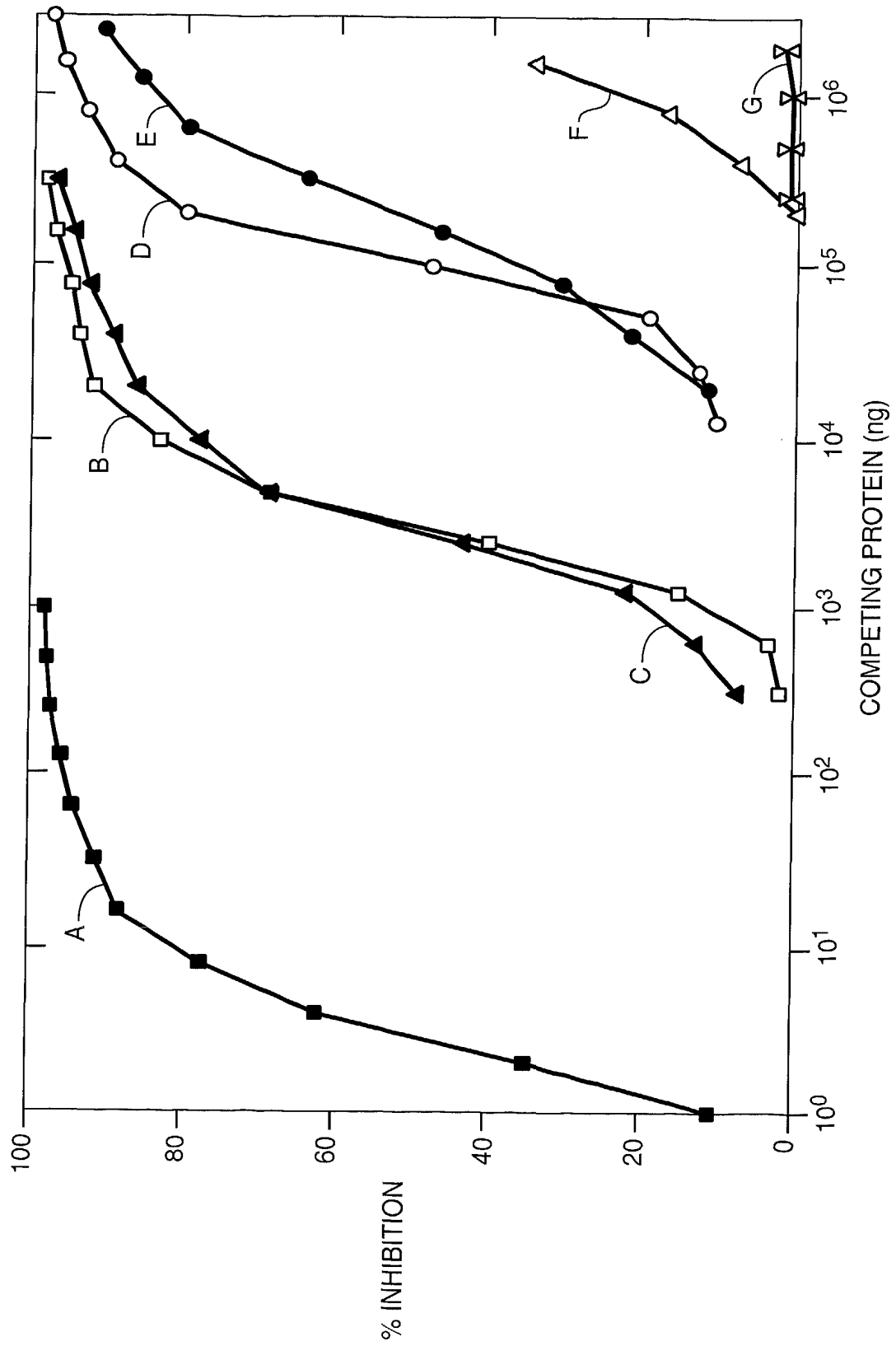


FIG. 11B



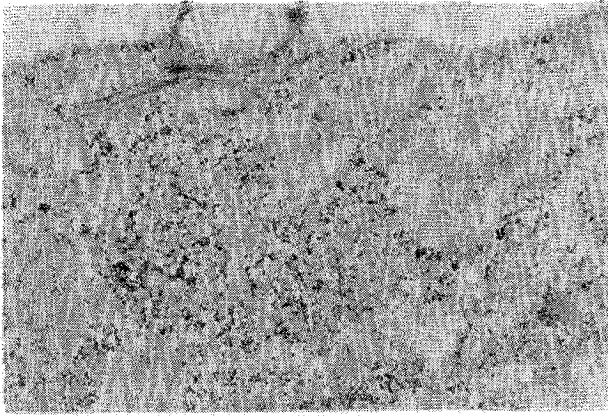


FIG._13A

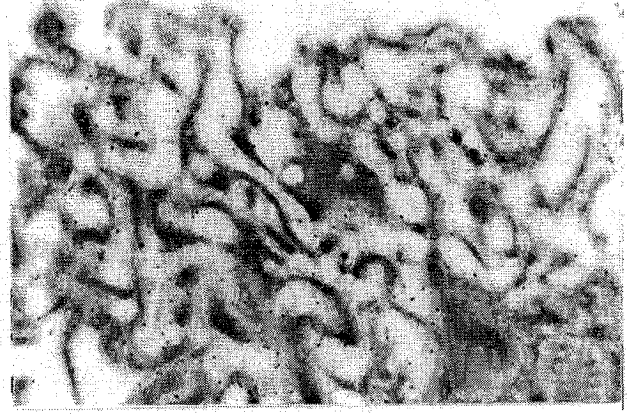


FIG._13B

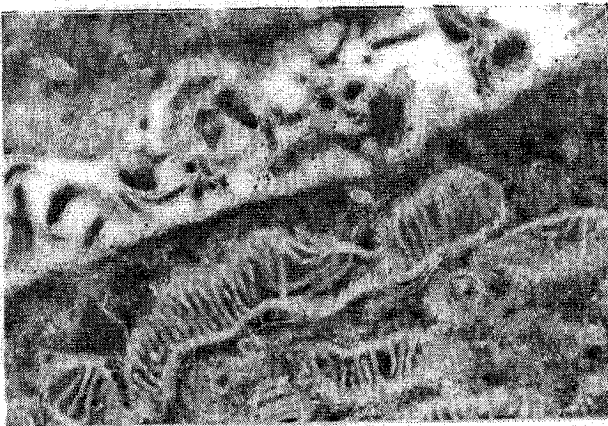


FIG._13C

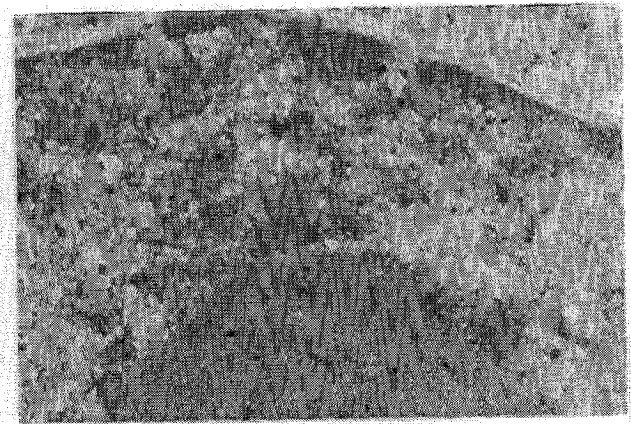


FIG._13D

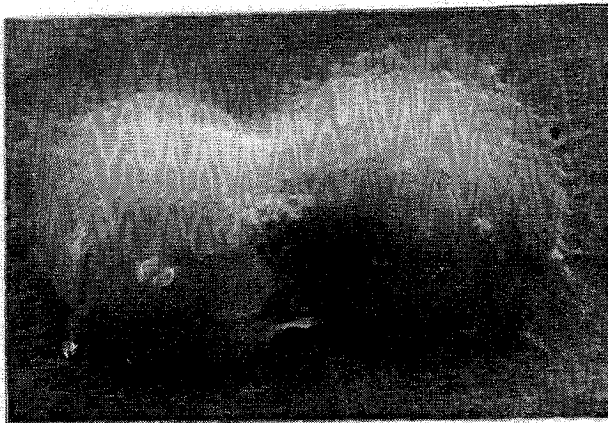


FIG._13E

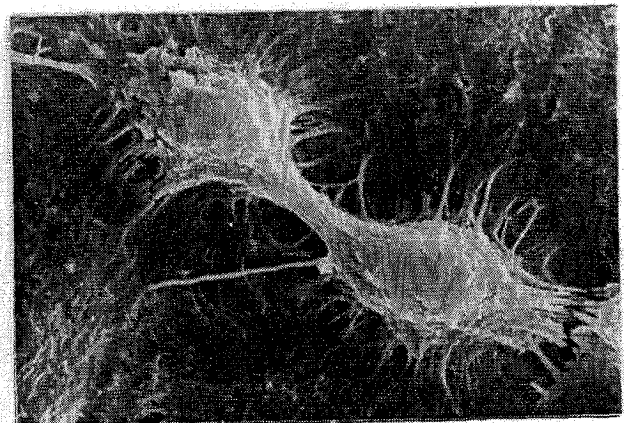
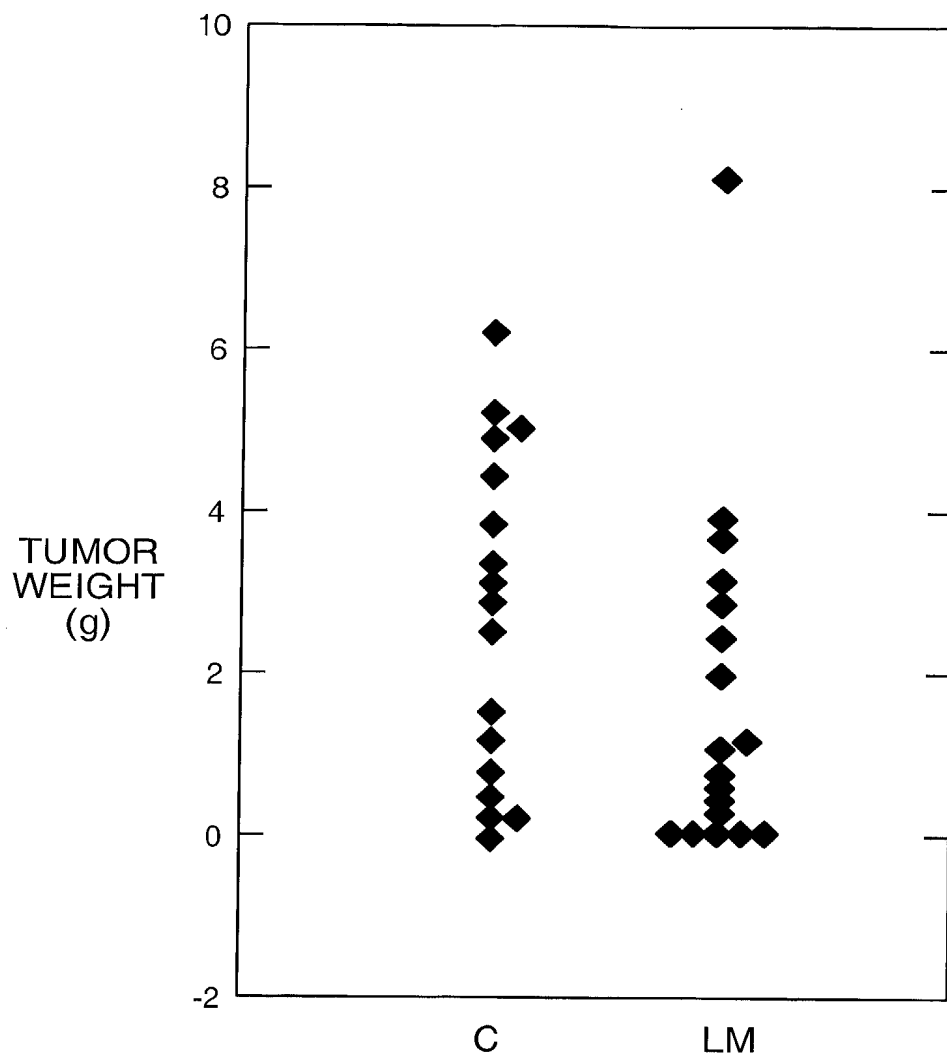


FIG._13F

**FIG._14**

1 ggatcctgtt gactcgtgac cttaccccc taagggcgg gactgtgct accctgtgct ctctgaaaca tgagctgtgt
61 ccactcagg ttaaatggat taagggcgg gcaagatgtg gcaagatgtg cttgttaaa cagatgcttg
121 aaggcagcat gctcgttaag agtcatcacc aatccctaata atccctaata ctcaagtaat cagggacaca
181 aacactgcg aaggccgcag ggtcctctgc ctaggaaaac ctaggaaaac cagagacctt tgttcaactg
241 ttatctgac ctccctcca ctattgtcca tgacctgcc ttaaaaaaa aatacaaaaa aaagcaagta
301 caccacaaga ttatcaataa aaaaaaaat tagttattga taaatgaata gctattggtg aagccaaagta
361 aaaaaaaa gacttacgaa gacggccatc atcacagctc aagtctacct aagttgatct
421 aatgatcata ttcaaaaacca gacggccatc atcacagctc aagtctacct aagttgatct
481 ctttatcat gtcatcttt tacgttccaa acatttaggg gttacatgaa ccttacctg ctaatttctt
541 aagttctaata tacgttccaa acatttaggg gttacatgaa ccttacctg ctaatttctt
601 ttgcttttga gccatgagtt gtaggaatga gcctttggct tatatttcta gctaaatttg
661 tttaaaactt acctctaagt acatttaggg gttacatgaa gcctttggct tatatttcta gctaaatttg
721 tagttaatgg atgcactgtg ttacagtaatt gcttacctaa gacctaagc cctatttctc
781 gggtaggtag gtactcagtt ttacagtaatt gcttacctaa gacctaagc cctatttctc
841 ttgtactggc ctttatctgt aatatgggca tatttaatac aatataattt ttggagtttt
901 tttgtttgtt tgtttgtttg tttttttgag acggagtctt gcatctgtca tgcccaggct
961 ggagtagcag tggcgccatc tcggctcact gcaagctcca cctccgagt tcacgccatt
1021 ttcctgcctc agcctcccga gtagctggga caccgtgta gccagaatgg cccgggctaa
1081 ttttttgtat ttttggtaga gacggggttt caccgtgta gccagaatgg cctcgatctc
1141 ctgacttcgt gatccaccg cctcggcctc ccaaagtctt gggattacag gtgtgagcca
1201 ccgcacctgg ccaatttttt gactctttaa aagtaaaaat atgtcttcta agctggtaac
1261 tatggtacat ttccttttat taatgtggtg ctgacgggtca tataggttct tttaggtttg
1321 gcatgcatat gctacttttt gcagtccttt aaaagggttct ctcattagcc taacacagtg
1381 catgttatat ctttttagctt cacttggcctt gaaaaacagt caagaaatg cacagtaata
1441 tcatgtgtgg taccactgg atcataagtg gaaacacagt caagaaatg cacagtaata
1501 cttgttttga agagggatga ttacaggtgaa tctgacacta agaaactccc ctacctgagg
1561 tctgagattc ctctgacatt gctgtatata ggcttttctt ttgacagcct gtgactgcgg
1621 actatttttc ttaagcaaga tatgctaaag ttttgtgagc ctttttccag agagaggtct
1681 catatctgca tcaagtgaga acataaatg tctgcatgtt tccatatctc aggaatgttt
1741 gcttgtgttt tatgctttta tatagacagg gaaacttgtt cctcagtgac ccaaaagagg
1801 tgggaattgt tattggatat catcattggc ccacgcttcc tgaccttggg aacaattaa
1861 ggttcataat ctcaattctg tcagaattgg tacaagaaat agctgctatg tttcttgaca
1921 ttccacttgg taggaaataa gaatgtgaaa ctcttcagtt ggtgtgtgtc cct?gtttt

| | | | | | | |
|-------|-------------|------------|-------------|------------|------------|-------------|
| 1981 | ttgcaattc | cttctactg | tgtaaaaa | aagtatgatc | ttgctctgag | aggtgaggca |
| 22041 | ttcttaatca | tgatctttaa | agatcaataa | tataatcctt | tcaaggatta | tgtctttatt |
| 22101 | ataataaaga | taatttgtct | taaacagaat | caataatata | atcccttaa | ggattatatac |
| 22161 | tttgctgggc | gcagtggctc | acacctgtaa | tcccagcact | ttgggtggcc | aaggtggaag |
| 22221 | gatcaaat | gcctacttct | atattatctt | ctaaagcaga | attcatctct | cttccctcaa |
| 22281 | tatgatgata | ttgacaggg | ttgccctcac | tactagatt | gtgagctcct | gctcagggca |
| 22341 | ggtagcgtt | tttgttttg | ttttgtttt | tctttttga | gacagggct | tgctctgtca |
| 22401 | ccaggccag | agtgcaatg | tacagtctca | gctcactgca | gcctcaacc | cctcggctca |
| 22461 | aaccatcatc | ccatttcagc | ctctgagta | gctgggacta | caggcacatg | ccattacacc |
| 22521 | tggctaatt | tttgttatt | ctagtagaga | cagggtttgg | ccatgttgcc | cgggctggtc |
| 22581 | tgaactcct | ggactcaagc | aatccacca | cctcagcctc | ccaaaatgag | ggaccgtgtc |
| 22641 | ttattcat | ccatgtccct | agtcctatagc | ccagtgtgg | acctatggt | gtactaaata |
| 22701 | aatatttgt | gaatgcaata | gtaaatagca | tttcagggag | caagaactag | attaacaaag |
| 22761 | gtggtaaa | gtttggagaa | aaaaataata | gtttaattg | gctagagtat | gaggagag |
| 22821 | agtaggagac | aagatggaaa | ggtctcttgg | gcaaggttt | gaaggaa | ggaagtcaga |
| 22881 | agtacacaat | gtgcatactg | tggcaggcag | tggggagcca | atgaaggctt | ttgagcagga |
| 22941 | gagtaaatgtg | ttgaaaaata | aatataggtt | aaacctatca | gagccctct | gacacataca |
| 33001 | cttgctttc | attcaagctc | aagtttgtct | cccacatacc | cattacttaa | ctcacccctg |
| 33061 | ggctccccta | gcagcctgcc | ctacctctt | acctgcttcc | tggtggagtc | agggatgtat |
| 33121 | acatgagctg | ctttccctct | cagccagagg | acatgggggg | cccagctcc | cctgccttct |
| 33181 | cccttctgtg | cctggagctg | ggaagcaggc | cagggttagc | tgaggctggc | tggcaagcag |
| 33241 | ctgggtggtg | ccagggagag | cctgcatagt | gccaggtggt | gccttgggtt | ccaagctagt |
| 33301 | ccatggcccc | gataaacctc | tgctgtgca | cacacctgcc | cctcaactca | ccccatcct |
| 33361 | agcttttgta | tgggggagag | ggcacagggc | cagacaaaac | tgtgagactt | tggctccatc |
| 33421 | tctgcaaaag | ggcgctctgt | gagtcagcct | gctccccctc | aggcttgctc | ctccccacc |
| 33481 | cagctctcgt | ttccaatgca | cgtacagccc | gtacacaccg | tgtgctggga | caccccACAG |
| 33541 | TCAGCCGCAT | GGCTCCCCTG | TGCCCCAGCC | CCTGGCTCCC | TCTGTTGATC | CGGCCCCCTG |
| 33601 | CTCCAGGCCT | CACGTGTGCA | CTGCTGCTGT | CACGTGCTGT | TCTGGTGCCT | GTCCATCCCC |
| 33661 | AGAGGTTGCC | CCGGATGCAG | GAGGATTCCC | CCTTGGGAGG | AGGCTCTTCT | GGGGAAGATG |
| 33721 | ACCCACTGGG | CGAGGAGGAT | CTGCCCCAGTG | AAGAGGATTC | ACCCAGAGAG | GAGGATCCAC |
| 33781 | CCGGAGAGGA | GGATCTACCT | GGAGAGGAGG | ATCTACCTGG | AGAGGAGGAT | CTACCTGAAG |
| 33841 | TTAAGCCTAA | ATCAGAAGAA | GAGGGCTCCC | TGAAGTTAGA | GGATCTACCT | ACTGTTGAGG |
| 33901 | CTCCTGGAGA | TCCTCAAGAA | CCCCAGAATA | ATGCCCCACG | GGACAAAGAA | Ggtaagtgg |

FIG. 15B

3961 catcaatctc caaatccagg ttccaggagg ttcatgactc cctcccata cccagccta
 4021 ggctctgttc actcagggaa ggaggggaga ctgtactccc cacagaagcc cttccagagg
 4081 tccataacca atatcccat cccactctc ggaggtagaa agggacagat gtggagagaa
 4141 aataaaaagg gtgcaaaaagg agagaggtga gctggatgag atgggagaga agggggaggc
 4201 tggagaagag aaagggatga gaactgcaga tgagagaaaa agtggcaga cagaggaaaa
 4261 aaataggtgg agaaggagag tcagagagtt tgaggggaag agaaaaggaa agcttgggag
 4321 gtgaagtggg taccagagac aagcaagaag agctggtaga agtcatctca tcttaggcta
 4381 caatgagga caatgagga ttgagaccta ggaagaagg acacagcagg tagagaaacg tggcttcttg
 4441 actccaagc caggaaattg ggaagaaggg ttggagacca tacaaggcag aggatgagt
 4501 ggggagaaga aagaaggag aaaggaaga tgggtactc actcatcttg gactcaggac
 4561 tgaagtggc actcactttt tttttttttt cgaatcggc tcaactgcaac ctccacctcc cgggttcaag
 4621 caggctggag tgcaatggcg ctagccaagt agctgcgatt acaggcatgc gccaccacgc
 4681 tgattctcct gcctcagcct tagtagagac ggggtttcgc catgttggtc aggttggtc
 4741 cgggctaatt tttgtatttt atccaaccac cctggcctcc caaagtgcg ggattatagg
 4801 cgaactcctg atctcaggtg ctgaagcagc cactcacttt accagctgc ggtgtgag
 4861 cgtgagccac aggcctggc tgtttggccc accagctgc ggtgtgag acccgtaatg ctccgtgaag
 4921 ttgcaagctg gtaggattgc ttttgacctg gcccgcttaa ggcatttgtt acccgtaatg ctccgtgaag
 4981 tctcctgtgc tttgcacctg gttttgggtc gttttgggtc ccaggaaggg attggggctc taagcttgag
 5041 gcatctgcgt ttgtgacatc gttttgggtc gttttgggtc ccaggaaggg attggggctc taagcttgag
 5101 cgggttcaccc ttttcattta tacaggggat gaccagagtc attggggctc taagcttgag
 5161 acacccaccc gctgcacaga ccaaatctgg gaacccagct ctgtggatct cccctacagc
 5221 cgtccctgaa cactgggtccc gggcggtccc cccgcgccc accgtcccac cccctcacct
 5281 tttctaccg ggttccctaa gttcctgacc taggcgtcag acttccctac tatactctcc
 5341 caccacagc gaccgcccctt ggccccgggt gtccccagcc ttcttgcccc gccctgagtc
 5401 cccggtgat atccgcccc cagctccccg cgtccccaga acttgccccg cgaacaatg gccacagtgg
 5461 cctgggcttc cagctccccg gacttgggga tggggcgggg cgcagggaa ggaaccgtcg
 5521 tgagggggtc tccccgccga gacttgggga tggggcgggg cgcagggaa ggaaccgtcg
 5581 cgcagtgcct gcccgggggt ggggtggggt ctaccggggtc ggccggggtc acttgcctct
 5641 ccctacgca gcaactgac cctgcccctt gggctagaga tggctctggg tccccggcgg
 5701 gagtaccgg ccttgacagt gcattctgac tggggggcctg caggtcgtcc gggtcggag
 5761 cacactgtg aagccacacg ttttccctgccc gaggtgagc cggactggcc gagaaaggggc
 5821 aaaggagcgg ggcggacggg ggcagagac gtggccctct cctaccctcg tgctctttc
 5881 agatccacgt ggttcacctc agcacccgct ttgcccagagt tgacgagggc ttggggcgcc

5941 CGGGAGGCCT GCGCGTGTG GCGCCTTTC TGGAGgtacc agatcctgga cacccttac
6001 tccccgctt ccatcccat gctcctccg gactctatcg tggagccaga gaccctacc
6061 cagcaagctc actcaggccc ctggctgaca aactcattca cgcactgttt gttcatttaa
6121 caccactgt gaaccaggca ccagcccca acaaggattc tgaagctgta ggtccttgcc
6181 tctaaggagc ccacagccag ggtcacagag tgggggaggg tgacatgaca aggacacatag
6241 taaagatggg tgcagaggaa acagaatgtg taaagcctt cactggtaga aaagaaaagg
6301 aggtgttcat acaccatgat ctactcact ttattttatt gtaactgcaa tatttaggga
6361 atggctacat gtaggttca ctactcact ttattttatt gtaactgcaa tatttaggga
6421 gtaggttca ctactcact ttattttatt gtaactgcaa tatttaggga
6481 ccaggctgga gtaggttca ctactcact ttattttatt gtaactgcaa tatttaggga
6541 gggattctcc tgcctcagct tctgagtag ctggggttac aggtgtgtgc caccatgccc
6601 agctaatttt ttttgtatt ttagtagac agggtttccac catgttggtc aggtgtgtct
6661 caaactcctg gcctcaagtg atccgcctga ctacgctac caaagtgtg attacaagt
6721 tgagccaccg tgccagcca cactcactga tctttaaag gtaggtgcat
6781 tcagagaaat gcctccatca tagcatgtca atattttcat actttaggt tcatgatgtt
6841 cttaacatta ggttcataag caaataaaga aaaaagaata ataaataaaa gaagtggcat
6901 gtcaggacct cactgaaa gcttcataag gcaaaacaca gaatcatgaa ggtgaatgca gaggtagacac
6961 caacacaaag gtgtatatat ggtttcctgt gggagtagtg tacggaggca gcagtgaagt
7021 agactgcaaa cgtcagaagg gcacgggtca ctgagagcct agtatccctag taaagtggc
7081 tcttccctc tcttccagc ttgtcattga aaaccagtc accaagcttg ttggttcgca
7141 cagcaagagt acatagagtt tgaataataa catagattt taagagggag acactgtctc
7201 taaaaaaaaa aacaacagca acaacaaaaa gcaacaacca tacaatttt atgttccctc
7261 agcatttca gagctgagga atgggagagg actatgggaa ccccttcat gtccggcct
7321 tcagccatgg ccctggatac atgcactcat ctgtcttaca atgtcattcc ccagGAGGG
7381 CCCGGAAGAA AACAGTGCCT ATGAGCAGTT GCTGTCTCGC TTGGAAGAAA TCGCTGAGGA
7441 AGgtcagttt gttggtctgg ccactaatct ctgtggccta gttcataaag aatcacctt
7501 tggagcttca ggtctgaggc tggagatggg ctccctccag tgcaggaggg attgaagcat
7561 gagccagcgc tcatcttgat aataaccatg aagctgacag acacagttac ccgcaaacgg
7621 ctgcctacag attgaaaacc aagcaaaaac cgccgggccc ggtggctcac gcctgtaac
7681 ccagcacttt gggaggccaa ggcaggtgga tcacgaggtc aagagatcaa gaccatcctg
7741 gccaacatgg tgaaccccca tcttactaa aaatacga aaatagccag gcgtggtggc
7801 ggggtcctgt aatccagct actcgggagg ctgaggcagg agaattggcat gaaccggga
7861 ggcagaagt gtagtgagcc gagatcgtgc cactgcactc cagcctgggc aacagagcga

7921 gactcttgtc tcaaaaaaa aaaaaaaa gaaaccaag caaaaaccaa aatgagacaa
 7981 aaaaaaag accaaaaaat ggtgttttga aattgtcaag gtcaagtctg gagagctaaa
 8041 ctttttctga gaactgttta tctttaataa gcatcaataa ttttaacttt gtaaataactt
 8101 ttgttgaaa tcgttctctt cttagtcact cttagtcact tttaaaatctc acttactcta
 8161 ctgaccttt taggtttctg ctgactagg tagaactctg cttttgcatt tcttgtgtct
 8221 gttttgtata gttatcaata ttcatattta ttacaagt ttatcagatca ttttttctt
 8281 tcttttttt ttttttttt ttttttacct cttagtaga gacagggtt caccatattg
 8341 gccaggctgc tctcaaac tcgacctgt ctgacctgt gatccaccag cctcggcctc ccaaagtgt
 8401 gggattcatt ttttcttttt aatttgctct gggcttaaac ttgtggccca gacttttatg
 8461 atggtacaca gagttaagag ttagactca gacggtcttt cttcttctt tctcttctt
 8521 cctcccttcc ctccaccctt ccagttgtc caagccctg tacttttttt tcttctctt
 8581 caggcctctt ccagttgtc caagccctg tacttttttt tcttctctt tcttctctt
 8641 agggcctgca cttagtgaag aagtgtctc agagttagt taccttggct tctgggaggt
 8701 gaaactgtat ccctataccc tgaagcttta aggggtgca atgtagatga gaccccaaca
 8761 tagatcctct tcacagGCTC AGAGACTCAG GTCCCAGGAC TGGACATATC TGCACCTCTG
 8821 CCTCTGACT TCAGCCGCTA CTTCATAT GAGGGTCTC TGACTACACC GCCCTGTGCC
 8881 CAGGGTGTCA TCTGGACTGT GTTAACCA ACAGTGATGC TGAGTGCTAA GCAGgtggc
 8941 ctgggtgtg tgtggacaca gtgggtgcgg gggaaagagg atgtaatg agatgagaaa
 9001 caggagaaga aagaaatcaa ggctgggctc tgtggcttac gcctataatc ccaccacgtt
 9061 gggaggctga ggtgggagaa tggtttgagc ccaggagttc aagacaaggc ggggcaacat
 9121 agtgtgacc catctctacc aaaaaaac tactcaagga ggctgagggt ggaagatcgc
 9181 gtatgcggcc tagtcccagc ctatgatccc accactgcct accatctta ggatacattt
 9241 gagtttgaga ctgcagtga ctatgatccc accactgcct accatctta ggatacattt
 9301 atttatttat aaaaagaaatc aagaggctgg atggggaata caggagctgg aggtggagc
 9361 cctgaggtgc ccactgacct ccttagctc ACACCTCTC TGACACCTCTG TGGGGACCTG
 9421 ccacactgt GCTACAGCTG AACTTCCGAG CGACGCAGCC TTTGAATGGG CGAGTGATTG
 9481 GTGACTCTCG CCTTCTGGA GTGGACAGCA GTCTCGGGC TGTGAGCCA Ggtacagctt
 9541 AGGCCTCCTT tctctgggtt ccccccagcc agtagtccct tatcctccc tgtgtgtgct
 9601 tgtctgggtt ccccccagcc agtagtccct tatcctccc tgtgtgtgct agtgtgtgct
 9661 attgggtggtc acagcccgcc tctcacatct cctttttctc tccagTCCAG CTGAATTCTT
 9721 GCCTGGCTGC TGgtgagtct gcccctctc ttggtcctga tggcaggaga ctcctcagca
 9781 ccattcagcc ccagggtgc tcaggaccgc ctctgctccc tctccttttc tgcagaaacag
 9841 accccaacc caatataga gaggcagatc atggtgggga tcccccat gtccccagag

9901 gctaattgat tagaatgaag cttgagaaat ctccagcat ccctctcgca aaagaatccc
 9961 cccccctttt tttaaagata ggtctcact ctgtttgccc caggctggg tgttgtggca
 10021 cgatcatagc tcaactgcagc ctgaaactcc taggctcagg caatcctttc accttagctt
 10081 ctcaagcac tgggactgta ggcactgagc actgtgcctg gccccaaag gcccttttac
 10141 ttggctttta cccttggctg gctcttctg gagactgagg cactatgggg tctcgtgtat ccaccctcat
 10201 cccttggctg gctcttctg gagactgagg cactatgggg cactatgggg actcggggca
 10261 ggggtggctg agtgcactga ggcagggtgtt gaggaactct gcagaccct cttccttccc
 10321 aaagcagccc tctctgctct ccactgcagg TGACATCCTA GCCCTGGTtT TTGGCCCTCCT
 10381 TTTTGTGTGC ACCAGCGTCG CGTTCCTTGT GCAGATGAGA AGGCAGCACA Ggtattacac
 10441 tgacccttcc ttcaggcacac agcttcccc acccttgtgg agtcactca tgcaaaagcgc
 10501 atgcaaatga gctgctcctg ggcagtttt ctgattagcc tttcctgttg gtacacaca
 10561 GAAGGGGAAC CAAAGGGGT GTGAGCTACC GCCCAGCAGA GGTA GCCGAG ACTGGAGCCT
 10621 AGAGGCTGGA TCTTGGAGAA TGTGAGAAGC CAGCCAGAGG CATCTGAGG GGAGCCGGTA
 10681 ACTGTCCTGT CCTGCTCATT ATGCCACTTC CTTTAACTG CCAAGAAATt TTTTAAATA
 10741 AATAATTATA ATaaaatag tggtagtcac ctttgttccc caaatcagaa ggaggtattt
 10801 gaatttccta ttactgttat tagcaccaat ttagtggtaa tgcatttatt ctattacagt
 10861 tcggcctcct tccacacatc actccaatgt gttgctcc

FIG._15F

FIG._15A

FIG._15B

FIG._15C

FIG._15D

FIG._15E

FIG._15F

FIG._15

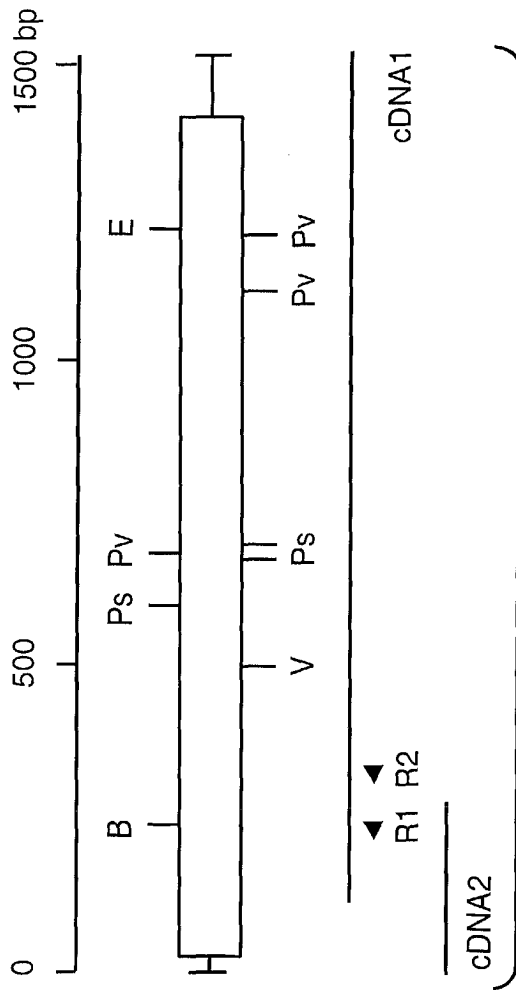


FIG._16

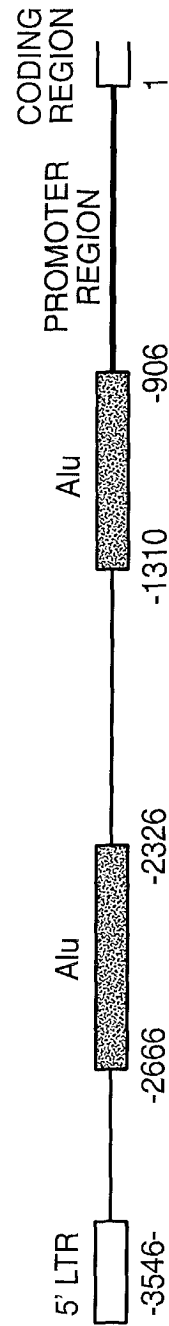


FIG._20

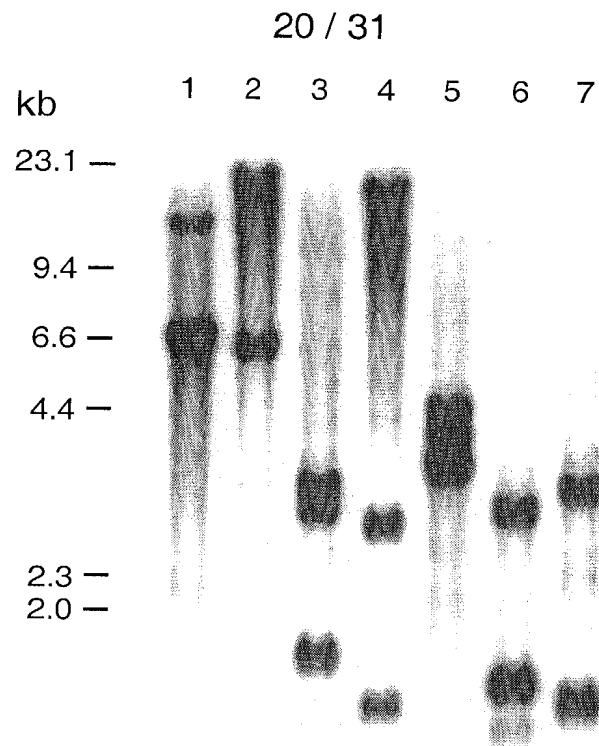


FIG._17

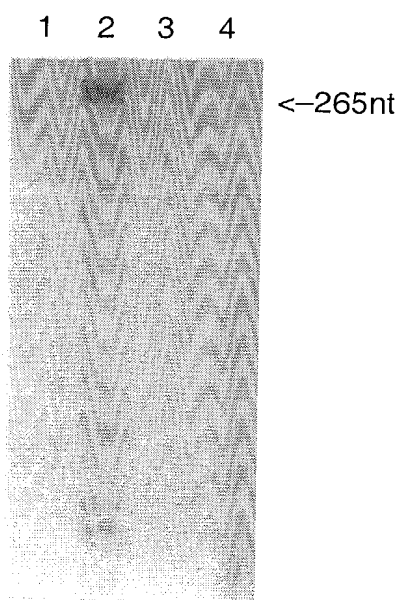


FIG._18A

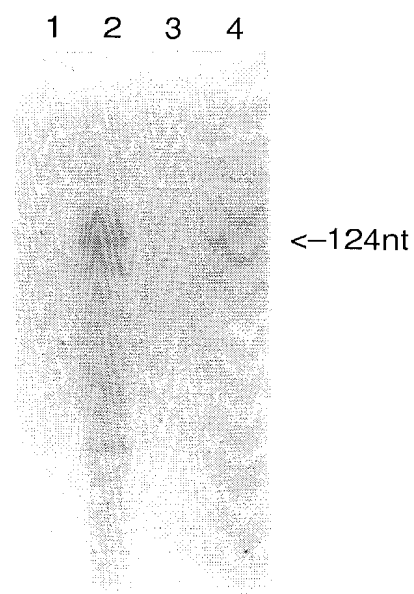


FIG._18B

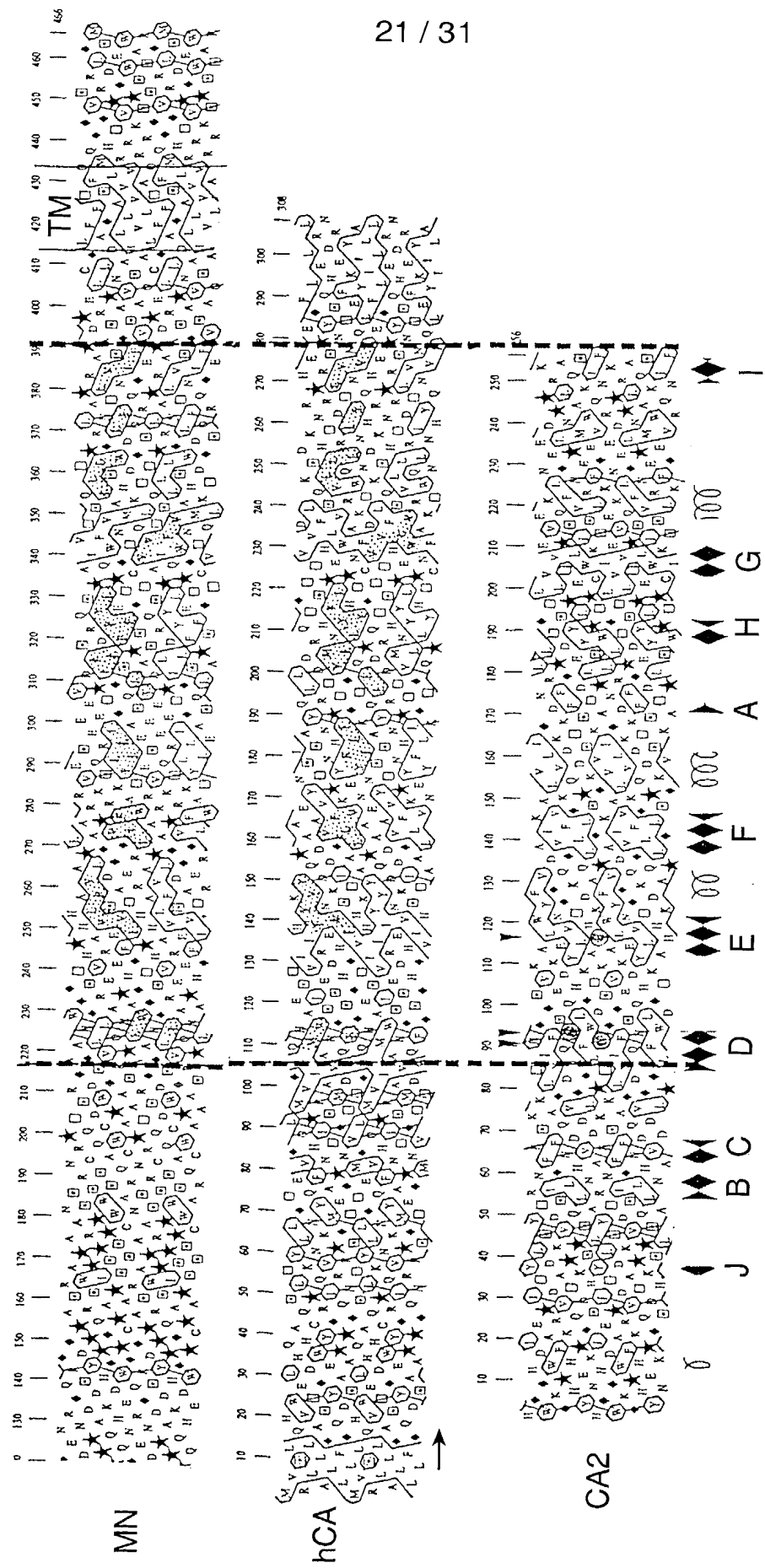


FIG.-19A

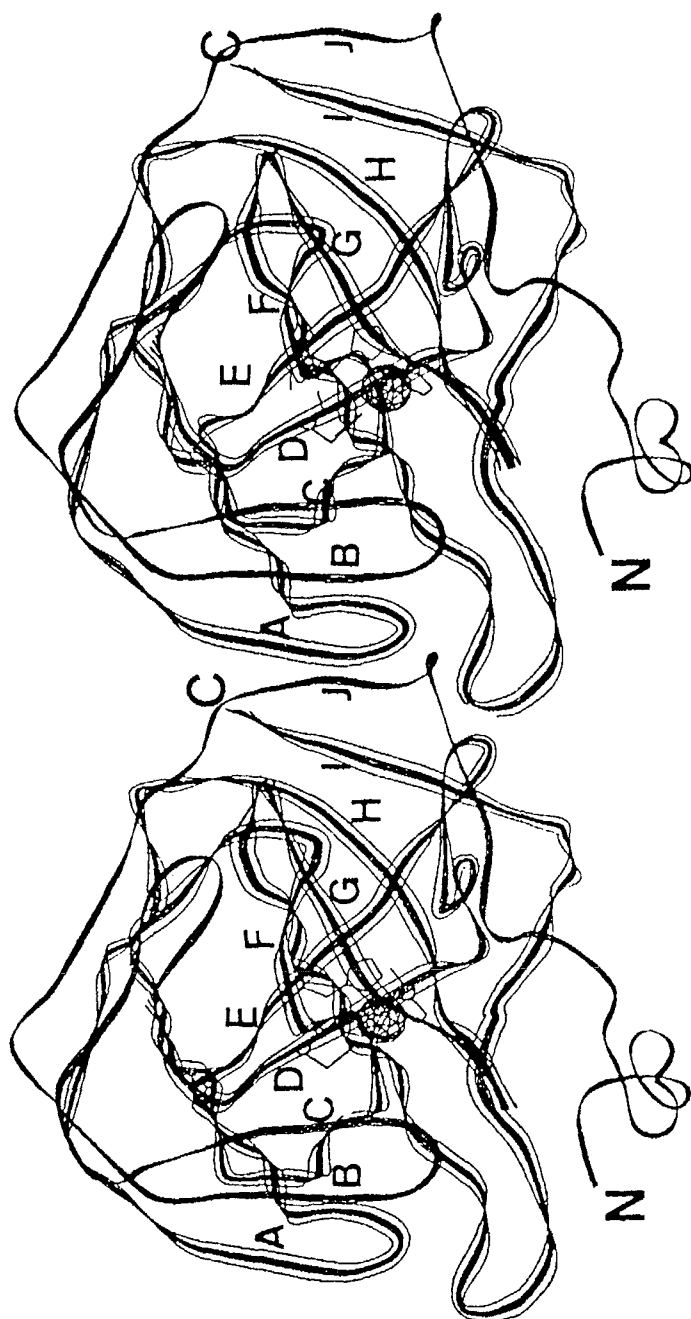


FIG. 19B

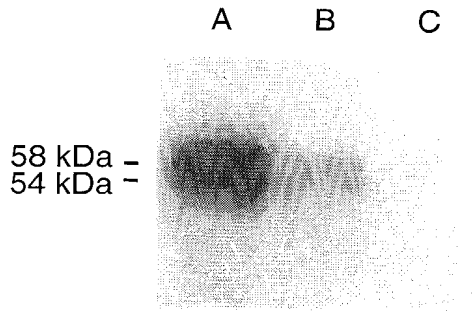


FIG._21A

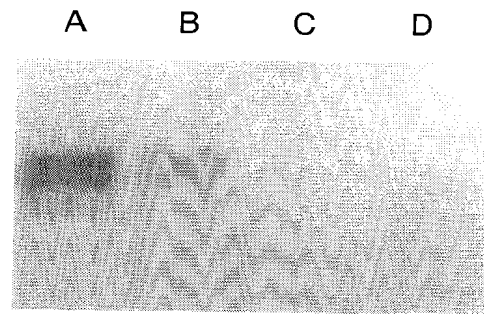


FIG._21B

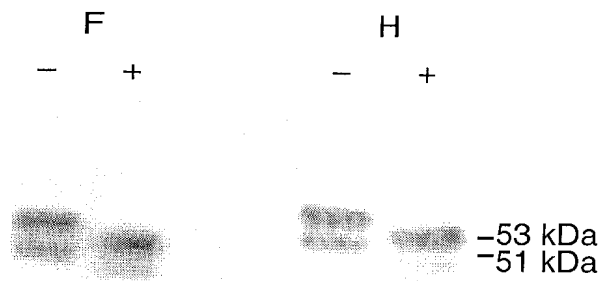


FIG._21C

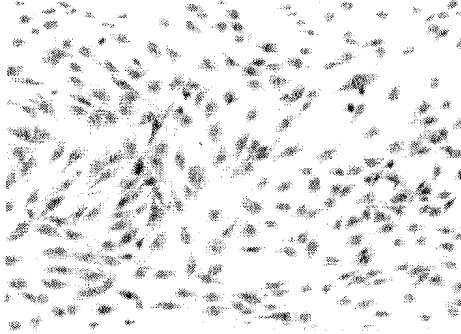


FIG._22A

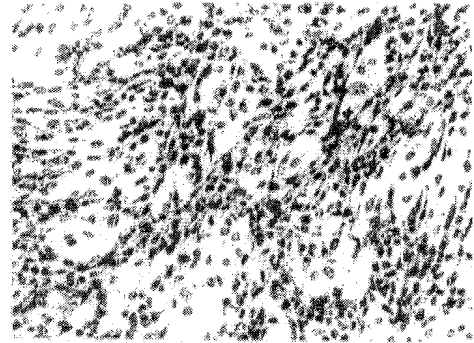


FIG._22B

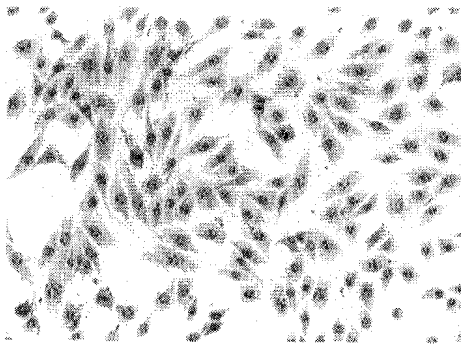


FIG._22C

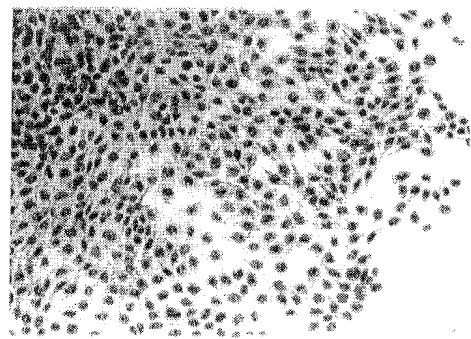


FIG._22D

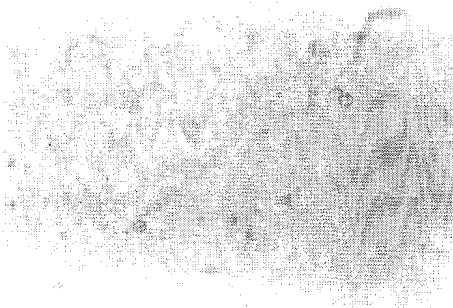


FIG._22E

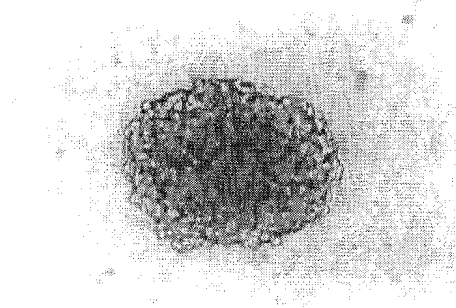


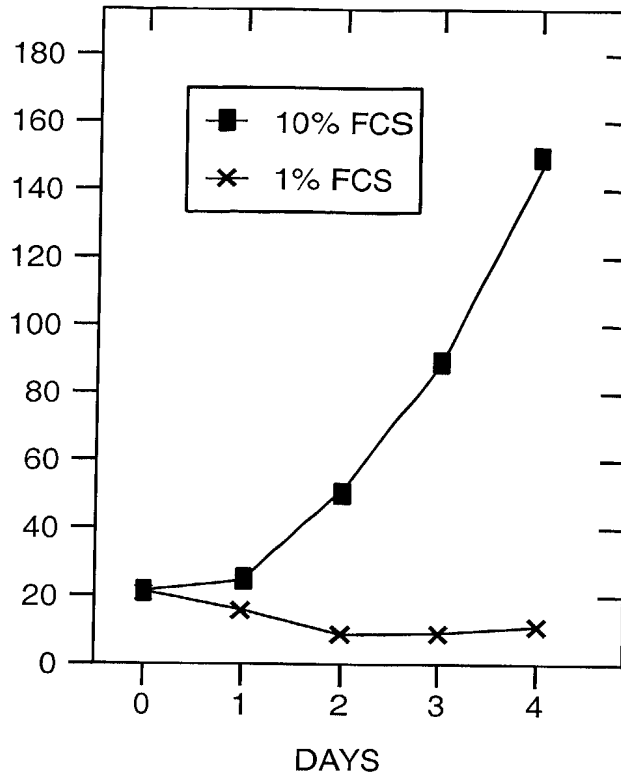
FIG._22F

09773719 064403
041190 612460

25 / 31

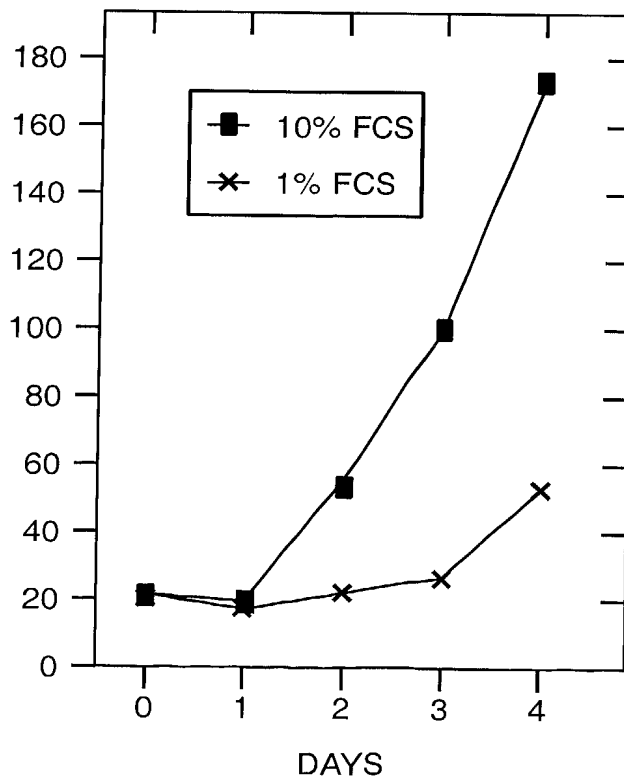
CELL
NUMBER
 $\times 10^3$

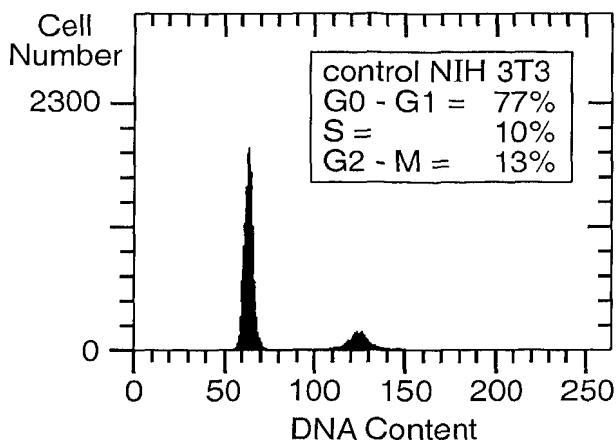
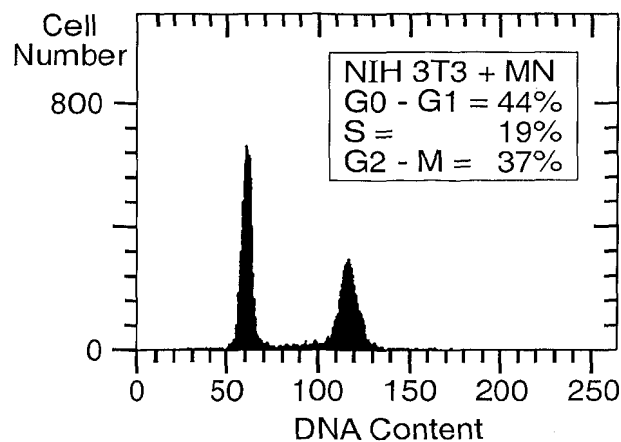
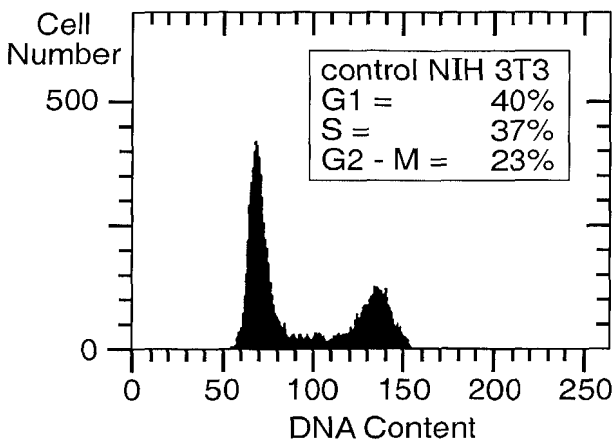
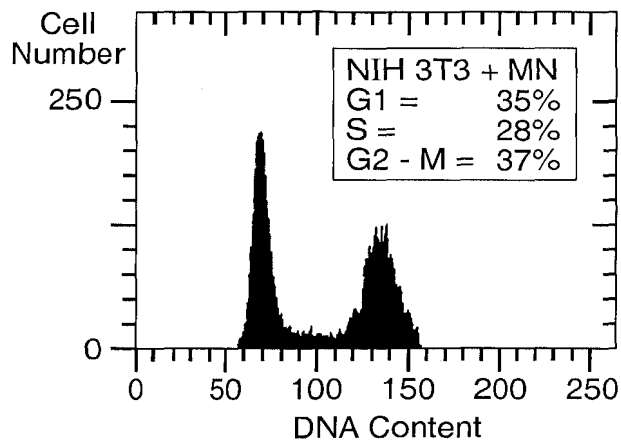
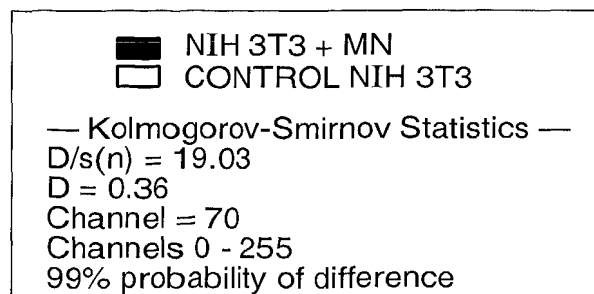
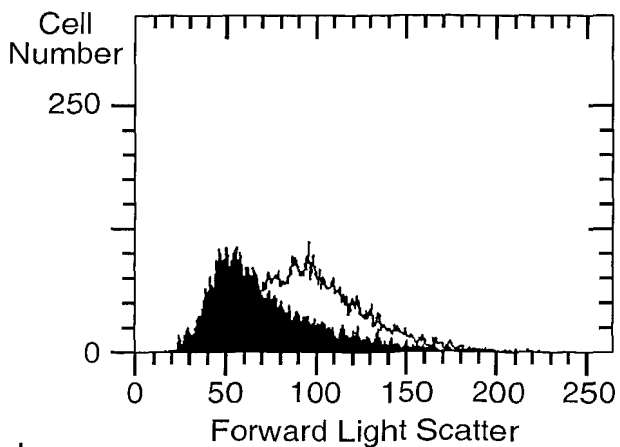
FIG._22G



CELL
NUMBER
 $\times 10^3$

FIG._22H



**FIG._23A-1****FIG._23A-2****FIG._23B-1****FIG._23B-2****FIG._23C**

+

FIG. 24

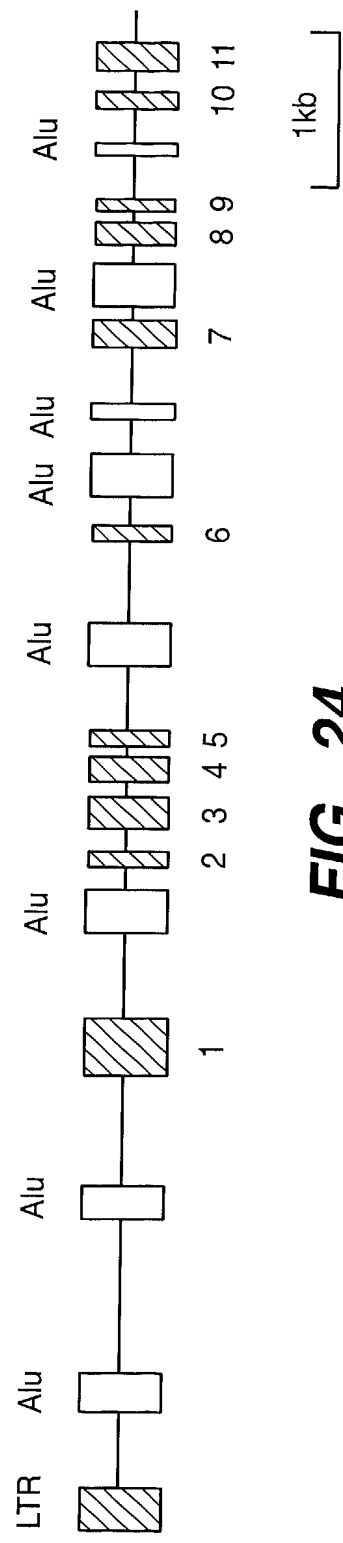


FIG._24

TOTAL SEQUENCE EXTENT: FROM 1 TO 10898

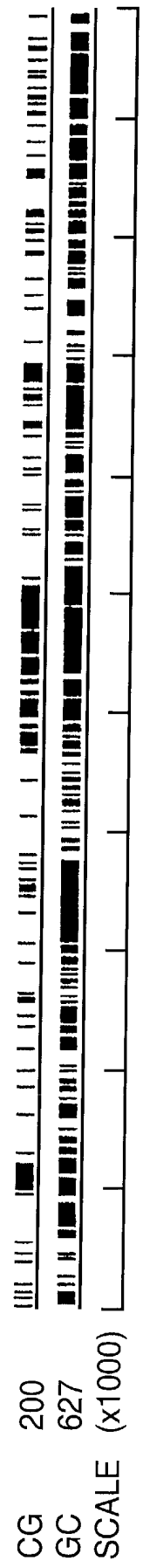


FIG._26

+

-506 CTGCTTTTC ATTCAAGCTC AAGTTGTCT CCCACATACC CATTACTTAA CTCACCCCTCG

-446 GGCTCCCCTA GCAGCCCTGCC CTACCTCTTTT ACCTGCTTCC TGGTGGAGTC AGGGATGTAT
AP2

-386 ACATGAGCTG CTTTCCCCTCT CAGCCAGAGG ACATGGGGGG CCCAGCTCC CCTGCCTTTC

-326 CCTTCTGTG CCTGGAGCTG GGAAGCAGGC CAGGTTAGC TGAGGCTGGC TGGCAAGCAG

-266 CTGGGTGGTG CCAGGGAGAG CCTGCATAGT GCCAGGTGGT GCCTTGGGT CCAAGCTAGT
p53

-206 CCATGGCCCC GATAACCTTC TGCCCTGTGCA CACACCTGCC CCTCACTCCA CCCCCATCCT
Inr

-146 AGCTTTGGTA TGGGGGAGAG GGCACAGGGC CAGACAAACC TGTGAGACTT TGGCTCCATC
Inr

-86 TCTGCAAAAG GCGGCTCTGT GAGTCAGCCT GCTCCCCCTCC AGGCTTGCTC CTCCTCCACCC
AP1 p53 AP2

-26 CAGCTCTCGT TTCCAATGCA CGTACAGCCC GTACACACCG TGTGCTGGGA CACCCACACG

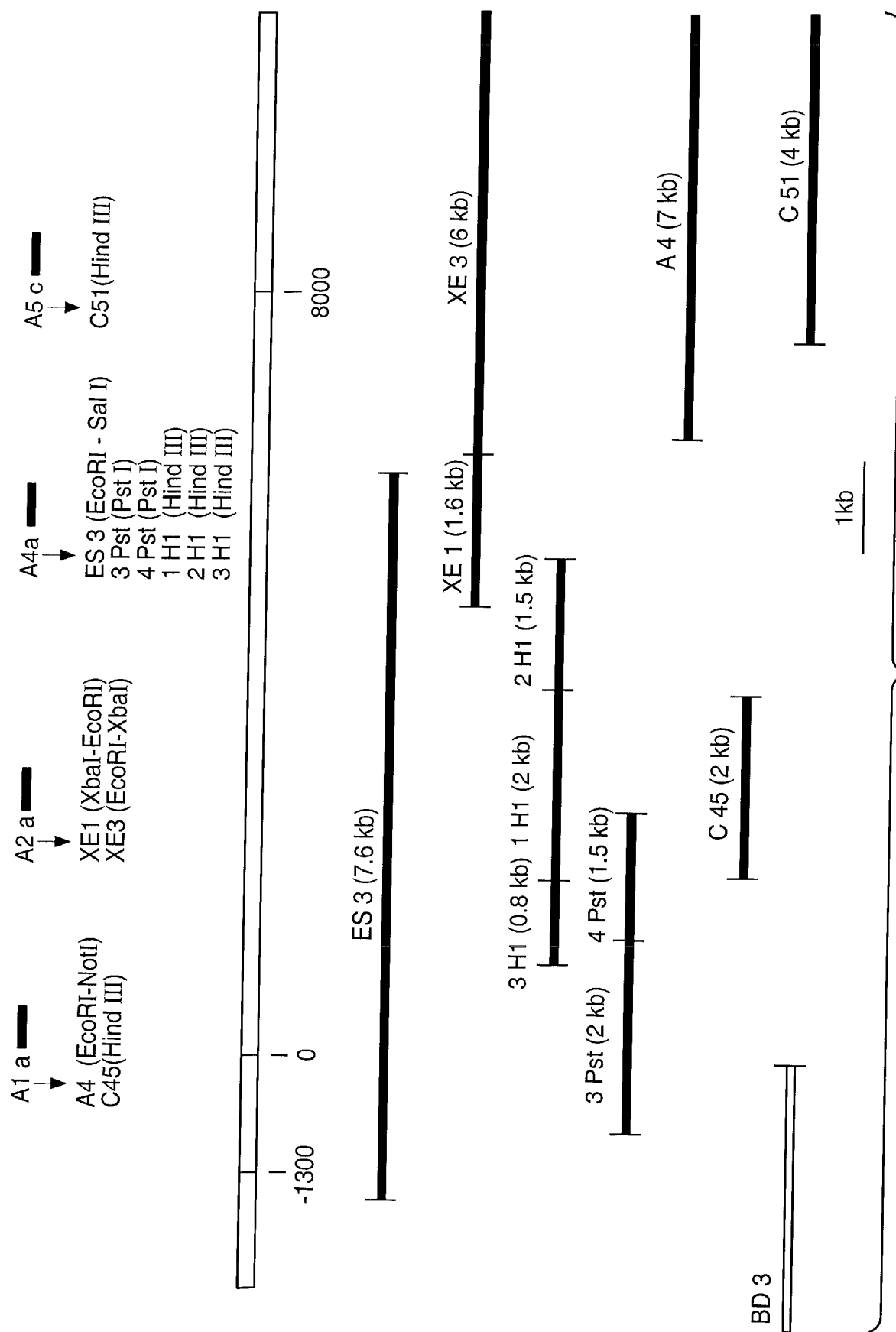


FIG. 27

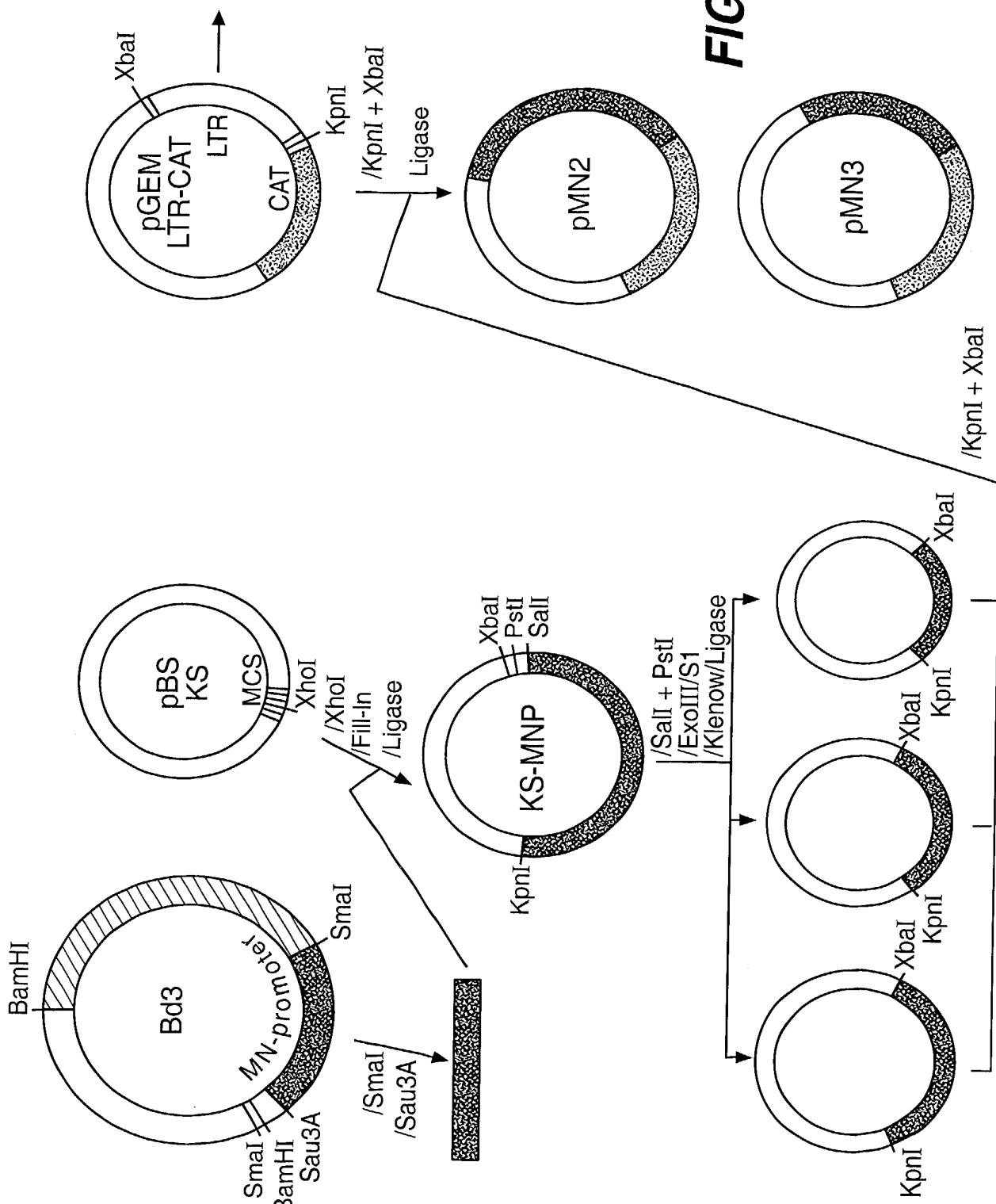


FIG. 28

